



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>INFORMATION DISCLOSURE</b>  <b>STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)	<b>Complete if Known</b>	
	Application Number	<b>10/572,696</b>
	Filing Date	<b>October 5, 2006</b> <b>International Filing Date: September 18, 2003</b>
	First Named Inventor	<b>Edith Gardiner</b>
	Group Art Unit	<b>1646</b>
	Examiner Name	<b>Li, Ruixiang</b>
	Attorney Docket Number	<b>42-000400US</b>
Date Submitted	<b>January 20, 2009</b>	

**U.S. PATENT DOCUMENTS**

Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Cite No.	Foreign Patent Document			Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)			

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
	1	ALEXANDER et al., "Human Parathyroid Hormone 1-34 Reverses Bone Loss in Ovariectomized Mice", Journal of Bone and Mineral Research, Vol. 16, pages 1665-1673 (2001).	
	2	AUBIN, "Osteoprogenitor Cell Frequency in Rat Bone Marrow Stromal Populations: Role for Heterotypic Cell-Cell Interactions in Osteoblast Differentiation", Journal of Cellular Biochemistry, Vol. 72, pages 396-410 (1999).	
	3	BALDOCK et al., "Gender Dependent Neuroregulation of Bone Mass: Evidence from the Neuropeptide Y Y2/Y4 Double Knockout Mouse", ASBMR Conference Presentation Abstract, (2003).	
	4	BALDOCK et al., "Neuropeptide Y Y2Y4 Receptor Double Knockout: Evidence for Sex Hormone Interaction in the Neuroregulation of Bone Mass". IMBS/JSBMR International Conference Presentation (2003).	
	5	BALDOCK et al., "Gender Difference in the Neuroregulation of Bone Mass: Evidence from the Neuropeptide Y Y2Y4 Double Knockout Mouse". ANZBMS Conference Presentation (2003).	
	6	DACI et al., "Mice Lacking the Plasminogen Activator Inhibitor 1 Are Protected from Trabecular Bone Loss Induced by Estrogen Deficiency", Journal of Bone and Mineral Research, Vol. 15, No. 8 (2000).	
	7	DRAGOO et al., "Bone Induction by BMP-2 Transduced Stem Cells Derived from Human Fat". Journal of Orthopaedic Research, Vol. 21 pages 622-629 (2003).	
	8	DRISSI et al., "The Cell Cycle Regulator p27 <sup>kip1</sup> Contributes to Growth and Differentiation of Osteoblasts". Cancer Research Vol. 59 pages 3705-3711 (1999).	
Examiner Signature		Date Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A-B/PTO  INFORMATION DISCLOSURE  STATEMENT BY APPLICANT  <i>(use as many sheets as necessary)</i>	<b>Complete if Known</b>	
	Application Number	<b>10/572,696</b>
	Filing Date	<b>October 5, 2006</b> <b>International Filing Date: September 18, 2003</b>
	First Named Inventor	<b>Edith Gardiner</b>
	Group Art Unit	<b>1646</b>
	Examiner Name	<b>Li, Ruixiang</b>
	Attorney Docket Number	<b>42-000400US</b>
Date Submitted	<b>January 20, 2009</b>	

9	DUCY et al., "Leptin Inhibits Bone Formation Through a Hypothalamic Relay: A Central Control of Bone Mass," Cell, Vol. 100, pages 197-207 (2000).
10	ELEFTERIOU et al., "Monosodium Glutamate-Sensitive Hypothalamic Neurons Contribute to the Control of Bone Mass." Endocrinology, Vol. 144, No. 9, pages 3842-3847 (2003).
11	HERZOG, "Neuropeptide Y and Energy Homeostasis: insights from Y Receptor Knockout Models". European Journal of Pharmacology, Vol. 480, pages 21-29 (2003).
12	HERZOG, "Neuropeptide Y and Related Peptides", Handbook of Experimental Pharmacology (Springer), Vol. 162, pages 1-40 (2004).
13	IWAMOTO et al., "Effect of Vitamin K <sub>2</sub> on Cortical and Cancellous Bones in Orchidectomized and/or Sciatic Neurectomized Rats". Journal of Bone and Mineral Research, Vol. 18, No. 4, pages 776-783 (2003).
14	KANATANI et al., "A Typical Y1 Receptor Regulates Feeding Behaviors: Effects of a Potent and Selective Y1 Antagonist, J-115814". Molecular Pharmacology, Vol. 59, No. 3, pages 501-505 (2001).
15	MURPHY et al., "Reduced Chondrogenic and Adipogenic Activity of Mesenchymal Stem Cells from Patients with Advanced Osteoarthritis". Arthritis & Rheumatism, Vol. 46, No. 3, pages 704-713 (2002).
16	RIGGS et al., "A Unitary Model for Involutional Osteoporosis: Estrogen Deficiency Causes Both Type I and Type II Osteoporosis in Postmenopausal Women and Contributes to Bone Loss in Aging Men". Journal of Bone and Mineral Research, Vol. 13, No. 5 pages 763-773 (1998).
17	SAINSBURY et al., "Y2 Receptor Deletion Attenuates the Type 2 Diabetic Syndrome of <i>ob/ob</i> Mice". Diabetes, Vol. 51, pages 3420-3427 (2002).
18	SAINSBURY et al., "Y4 Receptor Knockout Rescues Fertility in <i>ob/ob</i> mice". Genes & Development, Vol. 16, pages 1077-1088 (2002).
19	SATOMURA et al., "Osteogenic Imprinting Upstream of Marrow Stromal Cell Differentiation". Journal of Cellular Biochemistry, Vol. 78, pages 391-403 (2000).
20	SEN et al., "Adipogenic Potential of Human Adipose Derived Stromal Cells from Multiple Donors in Heterogeneous". Journal of Cellular Biochemistry, Vol. 81, pages 312-319 (2001).
21	SILVA et al., "Modulation of Intracellular Calcium Changes and Glutamate Release by Neuropeptide Y1 and Y2 Receptors in the Rat Hippocampus: Differential Effects in CA1 CA3 and Dentate Gyrus". Journal of Neurochemistry, Vol. 79, pages 286-296, (2001).
22	SONE et al., "Human Parathyroid Hormone-Related Peptide-(107-111) Does Not Inhibit Bone Resorption in Neonatal Mouse Calvariae". Endocrinology, Vol. 131, No. 6, pages 2742-2746

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A-B/PTO  INFORMATION DISCLOSURE  STATEMENT BY APPLICANT  <i>(use as many sheets as necessary)</i>	<b>Complete if Known</b>	
	Application Number	<b>10/572,696</b>
	Filing Date	<b>October 5, 2006</b> <b>International Filing Date: September 18, 2003</b>
	First Named Inventor	<b>Edith Gardiner</b>
	Group Art Unit	<b>1646</b>
	Examiner Name	<b>Li, Ruixiang</b>
	Attorney Docket Number	<b>42-000400US</b>
	Date Submitted	<b>January 20, 2009</b>

		(1992).	
	23	TAKEDA et al., "Leptin Regulates Bone Formation Via the Sympathetic Nervous System". Cell, Vol. 111, pages 305-317 (2002).	
	24	VERMA et al., "Adipocytic Proportion of Bone Marrow is Inversely Related to Bone Formation in Osteoporosis", Journal of Clinical Pathology, Vol. 55, pages 693-698 (2002).	
	25	ZUK et al., "Human Adipose Tissue Is a Source of Multipotent Stem Cells". Molecular Biology of the Cell, Vol. 13, pages 4279-4295 (2002).	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.